

1 **WHAT IS CLAIMED IS:**

2 1. A dual-directional hinge for a mobile phone comprising:

3 a first hinge member having a first tubular part, a passage longitudinally
4 defined at a first end of the first tubular part, a pintle received in the passage, and
5 an opening radially defined at a top side of the first tubular part and adjacent a
6 second end of the first tubular part; and

7 a second hinge member perpendicular to the first hinge member and
8 mounted in the opening of the first hinge member, the second hinge member
9 having a second tubular part rotatably received in the opening, two arms
10 respectively formed at two diametrically opposite sides of the second tubular
11 part, a first hole defined through a top end of the second tubular part, a resilient
12 member received in the second tubular part from a bottom end of the second
13 tubular part, an upper disk securely received in the second tubular part and under
14 the resilient member, the upper disk having a ridge formed at a bottom surface of
15 the upper disk and a second hole defined through the upper disk, a lower disk
16 beneath the upper disk having a channel defined at a top surface of the lower disk
17 for positioning the ridge and guide inclines formed between the channel and the
18 top surface, and a shaft securely extending through the first hinge member and
19 the lower disk, and rotatably extending through the upper disk, the resilient
20 member and the second tubular part.

21 2. The dual-directional hinge as claimed in claim 1, wherein the first
22 hinge member further has an aperture with a non-circular segment defined
23 beneath the opening and in communication with the opening; the lower disk has
24 a non-circular hole defined through the lower disk; and the shaft has a lower part

1 with a non-circular section matching the non-circular segment of the aperture
2 and the non-circular hole of the lower disk.

3 3. The dual-directional hinge as claimed in claim 1, wherein the second
4 tubular part has two slots longitudinally defined at the bottom end of the second
5 tubular part; and the upper disk has two stops formed at two diametrically
6 opposite sides of the upper disk and respectively positioned in the slots.

7 4. The dual-directional hinge as claimed in claim 1, wherein the ridge is
8 diametrically formed at the upper disk; and the channel is diametrically defined
9 at the lower disk.

10 5. The dual-directional hinge as claimed in claim 1, wherein the shaft
11 has a ring recess defined at a top end of the shaft extending out of from the first
12 hole of the second tubular part; and a collar is fastened in the ring recess.

13 6. The dual-directional hinge as claimed in claim 1, wherein the first
14 tubular part has a protrusion formed at the top side beside the opening; the pivot
15 member has two wings formed at two diametrically opposite sides of the second
16 tubular part; and two lugs are respectively and symmetrically formed at two
17 bottom surfaces of the wings for abutting the protrusion.